3505078

OPERATING INSTRUCTIONS FOR BEOGRAM 1202

GR 1202 TYPE 5237
№ 153692 P3

BEOGRAM 1202
Type 5237

CONTENTS

Introduction	Page 5
Photo and key plan	– 6 - 7
Setting up and connecting the BEOGRAM 1202	– 8
Operation	– 12
Technical data	– 19

Congratulations on Your BEOGRAM 1202

Even though your BEOGRAM 1202 is very easy to operate we nevertheless suggest that you read these instructions first.

It is especially important that your BEOGRAM 1202 is correctly assembled and set up after you have unpacked it. Both the quality of the sound reproduction and the handling of your precious records depend on it.

Your dealer can set up your BEOGRAM 1202 if you wish.

Yours faithfully,
BANG & OLUFSEN A/S

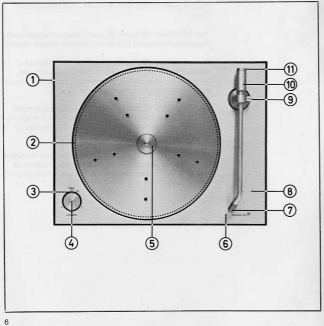
B&O BEOGRAM 1202 Fully Automatic Hi-fi Stereo Record Player.

Your BEOGRAM 1202 plays all record sizes and has two speeds. Its specifications exceed DIN 45 500 standards in every respect.

Your BEOGRAM 1202 is easy to operate. All functions are operated by a single master-control which consists of a push-button and a record size and speed selector. The selector has an additional position for manual operation.

Your BEOGRAM 1202 is rapid-acting. A light pressure on the LIFT button will instantly actuate the pickup arm. The automatic pickup-arm function also ensures maximum protection for your records.

Your BEOGRAM 1202 uses an SP 14 A pickup which is equipped with a spherical naked diamond. Stylus pressure is 2 grammes (ponds). The pickup arm features an automatic self-adjusting anti-skating device.



KEY PLAN

① Vernier speed adjustment

② Turntable with stroboscopic scale

③ Selector knob

④ LIFT button

⑤ Adaptor for large centre hole

⑥ Pilot light

⑦ Pickup cartridge

⑧ Finger grip

⑨ Stylus pressure adjustment screw

⑩ Counterweight

⑪ Counterweight adjustment

SETTING UP

Transit Protection

Your BEOGRAM 1202 is secured in various ways against damage during transit.

The resilient suspension which carries the turntable and pickup arm is secured by three large screws. They should not be removed but merely turned anti-clockwise, using a coin etc., until they go against the stops.

The following components are not mounted in place during transit, being instead placed in the packing inserts:

Turntable

Counterweight

Pickup cartridge with protective cap

Dust cover

Turntable

After having turned the three screws anti-clockwise, simply place the turntable on top of the smaller under-turntable.

The easiest way to take off the turntable is to proceed as shown in the sketch. A slight pressure applied close to the front of the cabinet will tilt up the turntable on the opposite side.

Counterweight and Pickup

The mounting of the counterweight and pickup cartridge, and balancing of the pickup arm, should be carried out with great care.
Undistorted reproduction and low record wear are directly dependent on correct balancing and correct stylus pressure.

Accordingly, before applying power to your BEOGRAM 1202 proceed as follows:

1. Slide the counterweight (10) on to the short portion of the pickup arm (note the cutout on the under side of the arm and a matching guide pin inside the counterweight). Then screw the counterweight's rotatable portion (11) approx. five turns clockwise.

2. Turn the stylus pressure adjustment screw (9) to 0 grammes (ponds) by turning it clockwise against the stop.

3. Plug the pickup cartridge (7) into the socket on the pickup arm and press it home whilst holding the pickup arm firmly in order to avoid damaging the arm bearings. Remove the protective cap from the cartridge.

4. The pickup arm should now be capable of balancing so that the supporting leg can be made to "float" 0.5 - 1 mm above the surface under it (see sketch). To adjust for exact balance turn the rotatable portion (11) of the counterweight either clockwise or anti-clockwise.

Be sure to do this with the protective cap removed from the pickup.

5. The pickup arm is now balanced. Thereafter turn the stylus-pressure adjustment screw (9) so that the desired stylus pressure is obtained.

Recommended stylus pressure for the SP 14 A pickup is 2 grammes (ponds).

Connecting the BEOGRAM 1202 to an Amplifier or Radio Set

Your BEOGRAM 1202 has a cable which is fitted with a DIN plug. Plug this cable into the low-impedance input socket of your amplifier or radio set.

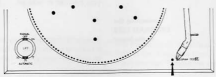
Connecting the BEOGRAM 1202 to the Mains

As supplied from the factory, the BEOGRAM 1202, type 5237, is switched for operation on 220 V, 50 Hz, and may be operated on mains voltages between 190 and 265 V.

Switching to 100 V, 50 Hz, is carried out by turning a switch in the bottom of the cabinet so that the figure 110 appears opposite the arrow marked VOLTS. The mains voltage range will then be 105 - 130 V.

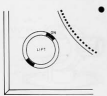
OPERATION

Operation of the BEOGRAM 1202 is very simple because all functions are controlled by a central knob.



AUTOMATIC The rotatable knob section selects record size and speed.

MANUAL The knob has a position, MANUAL ON, at which the turntable rotates at 33 r.p.m. but without the automatic pickup control feature. The knob should be in the MANUAL ON position while you adjust the turntable speed and while you wipe dust off your records (see below).



Speed Adjustment

Vernier adjustment of motor speed is performed with an adjustment knob on the side of the BEOGRAM 1202 while simultaneously watching the stroboscopic scale on the turntable. With the selector knob at MANUAL ON and no record placed on the turntable, illuminate the turntable with a mains-powered lamp. Rotate the adjustment knob until the black sections of the scale seem to be standing still. If they appear to move against the direction of rotation, the speed is too low, in which case the knob should be turned towards +.
Conversely, if the sections are moving in the direction of rotation, the speed is too high, and the knob should be turned towards –.

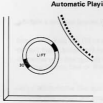
Cleaning Your Records

The MANUAL ON position is also suitable when you want to wipe dust off your records before use because you avoid the automatic movement of the pickup arm.

LIFT

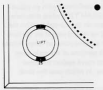
The LIFT pushbutton starts the motor and the automatic pickup control mechanism. It is also used as pause control and for restarting the motor. The red pilot lamp is on while the automatic mechanism is operative (see arrow on sketch above).

Automatic Playing



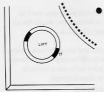
● **30 cm.** Put on a record and turn the selector to the 30 position. The speed will then be 33 r.p.m. Start the motor by pressing the LIFT button. The pickup will automatically move into position and lower into the starting groove on the record.

When the record has finished, the pickup will automatically rise and travel out to its position of rest, and the motor will stop.



25 cm. Put on a record and turn the selector to the 25 position. The speed will then be 33 r.p.m. Start the motor by pressing the LIFT button. The pickup will automatically move into position and lower into the starting groove on the record.

When the record has finished, the pickup will automatically rise and travel out to its position of rest, and the motor will stop.



17 cm. Put on a record and turn the selector to the 17 position. The speed will then be 45 r.p.m. Start the motor by pressing the LIFT button. The pickup will automatically move into position and lower into the starting groove on the record.

When the record has finished, the pickup will automatically rise and travel out to its position of rest, and the motor will stop.

Special Records

17 cm, 33 r.p.m. This unusual type of record requires a slightly different method of operation.
Set the selector to 30. Then you have to lift the pickup arm and move it in above the starting groove on the record. Start the motor by pressing the LIFT button. The pickup will now automatically lower on to the record.

When the record has finished, the pickup will automatically rise and travel out to its position of rest, and the motor will stop.

Records with Large Centre Holes

To play records with large centre holes, just press the central portion of the turntable while turning it anti-clockwise. A built-in spring will then lift the central portion.

When you thereafter again wish to play records with small holes, press down and turn clockwise.

Pause

If you wish to make a pause, brief or long, while playing a record, just press the LIFT button. The pickup will rise without travelling out, and the motor will stop.

When you press the LIFT button again, the motor will start again and the pickup will lower into the same groove.

A pilot lamp will be on while the automatic mechanism is "thinking" during which time the record player will not respond to further attempts to operate the LIFT button.

Stop Before End of Record

Press the LIFT button. The pickup will rise, and the motor stops. You should now move the pickup arm manually, and your BEOGRAM 1202 is ready to start from the beginning of the same record, or you may put on another record.

Incorrect Operation

Your BEOGRAM 1202 will suffer no damage should you unintentionally operate the controls while the automatic mechanism is working and the red lamp is on. This may cause the motor to stop, but the motor will function normally when you start "all over again".

Do not obstruct the movements of the pickup arm while it is under automatic control and the red lamp is on.

While the stylus is lowered on the record, and also while the arm is lifted and the light is off, you can move the pickup arm by means of the finger grip without risk, inside the area through which the arm will normally travel when under automatic control.

Cleaning the Dust Cover

The dust cover will accumulate a static charge if wiped repeatedly with a dry cloth. You can avoid this by occasionally wiping the dust cover with a cloth moistened with a weak solution of liquid detergent.

Dust Removal

Always dust your records before use with one of the antistatic aids which are commercially available. The diamond may be cleaned of dust if care is taken, using a soft brush etc.

PICKUP

Replacing the Stylus Assembly

If the stylus assembly has suffered damage and replacement is necessary, the pickup cartridge should be unplugged from its socket on the arm. Hold back the pickup arm while pulling to avoid damaging the arm bearings.

Loosen the screw on the under side; the complete stylus assembly can now be taken off and replaced with a new one (type 8905429). When mounting the new stylus assembly take care to press it home before tightening the screw.

NOTE:

Your BEOGRAM 1202 is only guaranteed to deliver optimum performance and meet its specifications if an original B&O stylus assembly is used.
Therefore beware of imitations; use only original B&O stylus assemblies for replacement.

Original B&O stylus assemblies are supplied only in sealed packages as shown in the sketch.

Other Pickup Cartridges

As supplied to you, your BEOGRAM 1202 is equipped with an SP 14 A pickup which uses a spherical diamond (type 8905432).

The SP 14 A offers all the advantages of the B&O system in a rugged, advanced version. The compliance of the stylus suspension secures correct, clear stereo reproduction throughout the tone range.

The SP 14 A is relatively insensitive to shocks and jolts caused by dancing etc.

The pickups listed below are separately available:

SP 10 A, featuring a spherical naked diamond, high stylus compliance and low stylus pressure of 1.0 - 1.5 grammes.

The SP 10 A gives richer tonal quality and purer reproduction.

The SP 10 A carries the type designation 8905425, replaceable stylus assembly type 8905429.

SP 12 A, with an elliptic naked diamond, high stylus compliance and low stylus pressure of 1.0 - 1.5 grammes. The specially ground and polished stylus tip is capable of tracking even the most difficult record groove thus reducing distortion to a minimum.

The SP 12 A carries the type designation 8905427, replaceable stylus assembly 8905430.

Checking the Stylus Pressure

After replacement of the pickup cartridge or stylus assembly it is advisable to check the stylus pressure and, if necessary, readjust the counterweight as described on page

TECHNICAL DATA

BEOGRAM 1202
Type 5237

DIMENSIONS AND WEIGHT

Dimensions in cm:	12 cm high with dust cover 44 cm wide, 33 cm deep
Dimensions in inches:	4 3/4 in. high with dust cover 17 5/16 in. wide, 13 in. deep.
Weight:	9 kg inclusive of dust cover.

POWER SUPPLY

Voltage:	110 - 130 / 220 - 240 V AC
Frequency:	50 Hz.
Power consumption:	10 W.

EXTERNAL CONNECTIONS

Output:	5 mV - 1000 Hz/47 kohms.

MOTOR

Speeds:	33 1/3 and 45 r.p.m.
Rumble:	Better than 60 dB (DIN-B).
Wow/Flutter:	Better than ± 0.15 % peak value (DIN), corresponding to ± 0.06 % rms.
Vernier adjustment:	6 %.

PICKUP ARM

Antiskating:	Built-in.
Stylus pressure adjustment:	0 - 3.5 grammes (ponds).
Pickup:	SP 14 A.

PICKUP

Pickup:	SP 14 A.
Type:	8905432.
Stylus:	Diamond.
Radius of curvature:	15 microns, spherical.
Frequency response:	20 - 20,000 Hz ± 3 dB. 40 - 16,000 Hz ± 2.5 dB.
Channel separation:	Better than 20 dB at 1000 Hz.
Channel matching:	Better than 2 dB.
Compliance:	15 X 10^{-6} cm/dyn.
Stylus pressure:	2 g (pl.
Output voltage:	1 mV/cm/sec. (5 mV average from music record).
Load impedance:	47 kohms.
Vertical tracking angle:	15°.
Weight:	8.5 g.

AVAILABLE AGAINST SEPARATE CHARGE

SP 10 A pickup, type 8905425
SP 12 A pickup, type 8905427

Meets DIN 45 500 Requirements

SUBJECT TO CHANGE WITHOUT NOTICE

PRINTED IN DENMARK
I DANMARK TRYKKERIET LYNGBY

Form. 6354